

CLAIMS:SUB
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1. A method for managing congestion in a network switch, said method comprising the steps of:

receiving an incoming packet on a first port of a network switch for transmission to a destination port;

determining if said destination port is a monitored port;

determining a queue status of said destination port, if said destination port is determined to be a monitored port; and

prescheduling transmission of said incoming packet to said destination port if said destination port is determined to be a monitored port.

2. The method as recited in claim 1, wherein said prescheduling step of further comprises the steps of:

classifying said queue status of said destination port; and

taking action in accordance with said classification of said queue status.

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3. The method as recited in claim 2, wherein said classifying step further comprises the steps of:

classifying said queue status of said destination port as a first type if a level of data in said queue is less than or equal to a first predetermined level;

classifying said queue status of said destination port as a second type if said level of data in said queue is less than or equal to a second predetermined level and greater than said first predetermined level; and

classifying said queue status of said destination port as a third type if said level of data in said queue is greater than said second predetermined level.

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4. The method as recited in claim 2, wherein said step of taking action in accordance with the classification of said queue status further comprises the steps of:

writing an entry in a first queue if said queue status of said destination port is classified as said first type;

dropping said packet if said queue status of said destination port is classified as said third type.

6. The method as recited in claim 1, wherein said network switch is one of a plurality of network switches configured in a stack.